Annual index

Subject index

Acyrthosiphon pisum (Harris), pea aphid: effect of trichlorfon sprays and alfalfa (Medicago sativa L.) cvs, 199

Agrypnus variabilis (Candèze), sugar-cane wireworm in maize: insecticidal control and economic damage, 253

Alfalfa (Medicago sativa L.) cvs and trichlorfon sprays: effect on pea aphid, Acyrthosiphon pisum (Harris), 199

Antipheromones and inhibition of response of *Heliothis virescens* to its natural pheromone, 501

Aphid, cereal, migrations over Britain in the summers of 1979 and 1982, 379

Aphid, grain (Sitobion avenae (F.), effect on winter wheat in England: economics of control practice and forecasting systems, 209

Aphid-monitoring data from suction traps: systems for rapid collection, analysis and dissemination, 273

Aphid, pea (Acyrthosiphon pisum (Harris): effect of trichlorfon sprays and alfalfa (Medicago sativa L.) cvs. 199

Aphid resistance and ear structure of cereals, 67

Application, electrostatic, of mineral oil and the pyrethroid cypermethrin for improved control of potato virus Y, 469

Applications, herbicide: ground application techniques, 9

Assessment of levels of resistance of cotton cultivars to isolates of Xanthomonas malvacearum (E.F. Smith) Dowson in Nigeria. Poswal, M.A.T. AND ERINLE, I.D., 103

Australian plague locust, Chortoicetes terminifera (Walker): control, 479

Bangladesh: timing and extent of damage caused by insect pests of green gram (*Vigna radiata* L.), 343

Barley, winter, in England: control of Bromus species using EPTC, 431

Beans, field (Vicia faba L.) attacked by Resseliella sp., 53

Beans, field (Vicia faba) in UK: effect of rust (Uromyces viciae-fabae) on yield, 193

Bean, white (*Phaseolus vulgaris* L.): effect of Pythium root rot on yield, 423

Beet, sugar, in commercial fields: effect of soil-applied granular pesticides on yield and establishment, 439

Beet, sugar, weed beet in, 1978–81, 315 Biological efficiency of small dicofol droplets against *Tetranychus urticae* (Koch) eggs, larvae and protonymphs. MUNTHALI, D.C., 327

Biological weed control in rice with a strain of Colletotrichum gloeosporioides (Penz.) Sacc. used as a mycoherbicide. Templeton, G.E., TeBeest, D.O. and Smith, R.J., Jr., 409

Botrytis cinerea in late-planted tomato crop: effect of night temperature and glasshouse ventilation, 243

Bremia lactucae in a glasshouse lettuce crop: integration of environmental and fungicidal control, 349

Bremia lactucae Regel (lettuce downy mildew): control by integrated use of genetic and chemical methods, 223

Bromus species in winter barley in England: control using EPTC, 431

Brown planthopper, Nilaparvata lugens (Stål) of rice: weed host, Leersia hexandra, 77

- Bullfinch damage prediction in pear cultivars, 335
- Cereal-aphid migrations over Britain in the summers of 1979 and 1982, 379
- Cereal ear structure and resistance to aphids, 67
- Chelated metal complexes and induction of resistance to insect pests in rice, 187
- Chemical and genetic control, integrated, of lettuce downy mildew (*Bremia lactucae* Regel), 223
- Chorotoicetes terminifera (Walker), Australian plague locust: control, 479
- Cocoa swollen shoot virus in Ghana: coppicing experiments on spread and control, 289
- Colletotrichum gloeosporioides (Penz.) Sacc. strain as a mycoherbicide for biological weed control in rice, 409
- Comparison of cereal-aphid migrations over Britain in the summers of 1979 and 1982. DEWAR, A.M. TATCHELL, G.M. AND TURL, L.A.D., 379
- Control of the Australian plague locust, Chortoicetes terminifera (Walker). SYMMONS, P.M., 479
- Control of *Bromus* species in winter barley in England using EPTC. POLLARD, F., RICHARDSON, W.G. AND WEST, T.M., 431
- Control, chemical and genetic, integrated, of lettuce downy mildew (*Bremia lactucae* Regel), 223
- Control, environmental and fungicidal, of Bremia lactucae in a glasshouse lettuce crop, 349
- Control of field spread of tulip breaking virus in *Lilium* cv. Enchantment by different brands of mineral oil.

 Asjes, C.J., 111
- Control, improved, of potato virus Y by mineral oil plus the pyrethroid cypermethrin applied electrostatically, 469
- Control, insecticidal, and economic damage of sugar-cane wireworm, Agrypnus variabilis (Candèze) in maize, 253
- Control practice and forecasting systems:

- economics, and effect of grain aphid, Sitobion avenae (F.), on winter wheat in England, 209
- Control of spread of cocoa swollen shoot virus in Ghana: coppicing experiments, 289
- Coppicing experiments on the spread and control of cocoa swollen shoot virus in Ghana. Legg, J.T., Lovi, N.K., Ollennu, L.A.A., Owusu, G.K. AND THRESH, J.M., 289
- Cotton cvs: resistance to isolates of Xanthomonas malvacearum in Nigeria, 103
- Crop protection: impact of genetic engineering, 399
- Cypermethrin and mineral oil: electrostatic application for improved control of potato virus Y, 469
- Cyst nematode (Heterodera glycines Ichinohe): relative resistance of derived soybean cvs, 363
- Damage, bullfinch: vulnerability of pear cvs, 335
- Damage, economic, and insecticidal control of sugar-cane wireworm, *Agrypnus variabilis* (Candèze) in maize, 253
- Damage by insect pests of green gram (Vigna radiata L.) in Bangladesh, 343
- Decreased sensitivity of Sphaerotheca fuliginea to fenarimol and other ergosterol-biosynthesis inhibitors. HUGGENBERGER, F., COLLINS, M.A. AND SKYLAKAKIS, G., 137
- Determining the toxicity and hazard to fish of a rice insecticide.

 STEPHENSON, R.R., CHOI, S.Y. AND OLMOS-JEREZ, A., 151
- Dicofol droplets, small, vs *Tetranychus urticae* (Koch) eggs, larvae and protonymphs, 327
- Downy mildew, lettuce (*Bremia lactucae* Regel): integrated control by genetic and chemical methods, 223
- Downy mildew: multilocation evaluation and selection of stable genotypes for reaction in pearl millet, 95
- Droplets, small, dicofol, vs *Tetranychus urticae* (Koch) eggs, larvae and protonymphs, 327

Ear structure and the resistance of cereals to aphids. WATSON, S.J. AND DIXON, A.F.G., 67

Economic damage and insecticidal control of sugar-cane wireworm, *Agrypnus variabilis* (Candèze), in maize, 253

Economics of control practice and forecasting systems: effect of grain aphid, *Sitobion avenae* (F.), on winter

wheat in England, 209

Effect of the grain aphid, Sitobion avenae (F.), on winter wheat in England: an analysis of the economics of control practice and forecasting systems. WATT, A.D., VICKERMAN, G.P. AND WRATTEN, S.D., 209

Effect of night temperature and glasshouse ventilation on the incidence of *Botrytis cinerea* in a late-planted tomato crop. MORGAN, WALTER M.,

243

Effects of nymphal feeding by the meadow spittlebug, *Philaenus spumarius* (L.), on strawberry yield and quality. Zajac, Mark, A. and Wilson, M. Curtis, 167

Effect of Pythium root rot on yield of white bean, *Phaseolus vulgaris* L. CHEW, P.S. AND HALL, R.,

423

Effect of rust (*Uromyces viciae-fabae*) on the yield of spring-sown field beans (*Vicia faba*) in the UK. LAPWOOD, D.H., BAINBRIDGE, A., MCEWEN, J. AND YEOMAN, D.P., 193

Effects of soil-applied granular pesticides on the establishment and yield of sugar beet in commercial fields. MAUGHAN, G.L., COOKE, D.A. AND

GNANASAKTHY, A., 439

Effect of systemic fungicides, applied as seed treatments or early foliar sprays, on speckled leaf blotch of wheat, *Mycosphaerella graminicola* (Fuckel) Schroeter. Brown, J.S., 59

Effect of trichlorfon sprays and alfalfa (Medicago sativa L.) cultivars on pea aphid, Acyrthosiphon pisum (Harris). CUPERUS, G.W. AND RADCLIFFE,

E.B., 199

Electrostatic application of mineral oil plus the pyrethroid cypermethrin for

improved control of potato virus Y, 469

Environmental and fungicidal control of Bremia lactucae in a glasshouse lettuce crop, 349

EPTC used to control *Bromus* species in winter barley in England, 431

Ergosterol-biosynthesis inhibitors (fenarimol): decreased sensitivity of Sphaerotheca fuliginea, 137

Establishment and yield of sugar beet in commercial fields: effects of soilapplied granular pesticides, 439

Estimation of swath width using ULV sprays: a practical scheme, 451

Farming systems approach: pestmanagement technologies for peasants, 87

Fenarimol and other ergosterolbiosynthesis inhibitors: decreased sensitivity of *Sphaerotheca fuliginea*, 137

Field assessment of spray patterns on tractor sprayers. TREFAN, L., 507 Field beans (Vicia faba L.) attacked by

Resseliella sp., 53

Field beans (Vicia faba) in UK: effect of rust (Uromyces viciae-fabae) on yield, 193

Fish: toxicity and hazard of a rice insecticide, 151

Forecasting systems and control practice: economics and effect of grain aphid, Sitobion avenae (F.) on winter wheat in England, 209

Fungicided and environmental control of Bremia lactucae in a glasshouse lettuce crop, 349

Fungicide resistance: industry's response,

Fungicides, systemic, as seed treatments or early foliar sprays: effect on speckled leaf blotch of wheat, Mycosphaerella graminicola, 59

Fungitoxicity of, and resistance to, metalaxyl, 177

Genetic analysis for resistance to the green leafhopper, Nephotettix virescens (Distant) in some cvs of rice, Oryza sativa L. AVESI, G.M. AND KHUSH, G.S., 41

- Genetic and chemical control, integrated, of lettuce downy mildew (*Bremia* lactucae Regel), 223
- Genetic engineering: impact on crop protection, 399
- Genotypes, stable: multilocation evaluation and selection for reaction to downy mildew in pearly millet, 95
- Ghana, cocoa swollen shoot virus in: coppicing experiments on spread and control, 289
- Glasshouse lettuce crop: integration of environmental and fungicidal control of *Bremia lactucae*, 349
- Glasshouse ventilation and night temperature: effect on incidence of Botrytis cinerea in a late-planted tomato crop, 243
- Grain aphid, Sitobion avenae (F.), effect on wheat in England: economics of control practice and forecasting systems, 209
- Granular, soil-applied pesticides: effects on establishment and yield of sugar beet in commercial fields, 439
- Green gram (Vigna radiata L.): timing and extent of damage caused by insect pests in Bangladesh, 343
- Green leafhopper, Nephotettix virescens (Distant): genetic analysis for resistance in some cvs of rice, Oryza sativa L., 41
- Ground-application techniques for herbicide applications, 9
- Heliothis virescens: inhibition, by antipheromones, of response to its natural pheromone, 501
- Heptachlor, isazophos and lindane infurrow and broadcast-incorporated treatments: phytotoxicity to sorghum, 261
- Herbicide applications: a review of ground application techniques. Combellack, J.H., 9
- Heterodera glycines Ichinohe (cyst nematode): relative resistance of derived soybean cvs, 363
- Impact of genetic engineering on crop protection. Comai, Luca and Stalker, David M., 399 Improved control of potato virus Y by

- mineral oil plus the pyrethroid cypermethrin applied electrostatically. GIBSON, R.W. AND CAYLEY, G.R., 469
- Induction of resistance in rice plants to insect pests by the application of chelated metal complexes. Premila, K.S. and Dale D., 187
- Industry's response to fungicide resistance. Delp, C.J., 3
- Inhibition of response of Heliothis virescens to its natural pheromones by antipheromones. Albans, K.R., Baker, R., Jones, O.T., Jutsum, A.R. and Turnbull, M.D., 501
- Insecticidal control and economic damage of sugar-cane wireworm, Agrypnus variabilis (Candèze), in maize.
 FORRESTER, N.W., GUNNING, R.V. AND SINGH, G., 253
- Insecticide, rice: toxicity and hazard to fish, 151
- Insect pests in Bangladesh: timing and extent of damage to green gram (Vigna radiata L.), 343
- Insect pests: induction of resistance in rice by chelated metal complexes, 187
- Integrated use of genetic and chemical methods for control of lettuce downy mildew (*Bremia lactucae* Regel).

 CRUTE, I.R., 223
- Integration of environmental and fungicidal control of *Bremia lactucae* in a glasshouse lettuce crop.

 MORGAN, W.M., 349
- Irrigation pipes: Syrian woodpeckers deterred from drilling holes in, 35
- Isazophos, lindane and heptachlor infurrow and broadcast-incorporated treatments: phytotoxicity to sorghum, 261
- Leafhopper, green, Nephotettix virescens (Distant): genetic analysis for resistance in some cvs of rice, Oryza sativa L., 41
- Leersia hexandria, a weed host of the rice brown planthopper, Nilaparvata lugens (Stål). HEINRICHS, E.A. AND MEDRANO, F.G., 77

Lettuce crop, glasshouse: integration of environmental and fungicidal control of *Bremia lactucae*, 349

Lettuce downy mildew (*Bremia lactucae* Regel): integrated control by genetic and chemical methods, 223

Lilium cv. Enchantment: control of field spread of tulip breaking virus by mineral oils, 111

Lindane, heptachlor and isazophos infurrow and broadcast-incorporated treatments: phytotoxicity to sorghum, 261

Locust, Australian plague, Chortoicetes terminifera (Walker): control, 479

Maize: insecticidal control and economic damage of sugar-cane wireworm, Agrypnus variabilis (Candèze), 253

Meadow spittlebug, *Philaenus spumarius* (L.): effects of nymphal feeding on strawberry yield and quality, 167

Medicago sativa L. (alfalfa) cvs and trichlorfon sprays: effect on pea aphid, Acyrthosiphon pisum (Harris), 199

Metalaxyl: fungitoxicity and resistance, 177

Metal complexes, chelated, and induction of resistance to insect pests in rice, 187

Method to deter Syrian woodpeckers from drilling holes in plastic irrigation pipes. Barnea, A. and Yom-Tov, Y., 35

Micromus tasmaniae Walker (Neuroptera: Hemerobiidae): spray technique for mass release of eggs, 369

Millet, pearl, stable genotypes: multilocation evaluation and selection for reaction to downy mildew, 95

Multilocation evaluation and selection of stable genotypes for reaction to downy mildew in pearl millet. CHAHAL, S.S. AND VIRK, D.S., 95

Mycoherbicide: use of a strain of Colletotrichum gloeosporioides (Penz.) Sacc. for biological weed control in rice, 409

Mycosphaerella graminicola (Fuckel) Schroeter, speckled leaf blotch of wheat: effect of systemic fungicides, as seed treatments or early foliar sprays, 59

Nephotettix virescens (Distant), green leafhopper: genetic analysis for resistance of some rice (Oryza sativa L.) cvs, 41

Nigeria: resistance of cotton cvs to isolates of Xanthomonas malvacearum, 103

Night temperature and glasshouse ventilation: effect on *Botrytis cinerea* in late-planted tomato crop, 243

Nilaparvata lugens (Stål), brown planthopper of rice: weed host, Leersia hexandra, 77

Nymphal feeding by meadow spittlebug, *Philaenus spumarius* (L.): effects on strawberry yield and quality, 167

Oil, mineral, different brands, to control field spread of tulip breaking virus in *Lilium* cv. Enchantment, 111

Oil, mineral, plus pyrethroid cypermethrin: electrostatic application for improved control of potato virus Y, 469

Oryza sativa L. (rice) cvs: genetic analysis for resistance to green leafhopper, Nephotettix virescens (Distant), 41

Oryza spp. resistance to thrips, Stenchaetothrips biformis (Bagnall), 305

Pea aphid, Acyrthosiphon pisum (Harris): effect of trichlorfon sprays and alfalfa (Medicago sativa L.) cvs, 199

Pear cultivars: prediction of vulnerability to bullfinch damage, 335

Peasants, and pest-management technologies: a farming systems approach, 87

Pesticides, granular, soil-applied: effects on establishment and yield of sugar beet in commercial fields, 439

Pest-management technologies for peasants: a farming systems approach. ALTIERI, M.A., 87

Phaseolus vulgaris L. (white bean): effect of Pythium root rot on yield, 423

Pheromone response, natural, of *Heliothis* virescens: inhibition by antipheromones, 501

Philaenus spumarius (L.), meadow spittlebug: effects of nymphal feeding on strawberry yield and

quality, 167

Phytotoxicity of isazophos, lindane and heptachlor to sorghum applied as infurrow and broadcast-incorporated treatments. Forrester, N.W., 261

Planthopper, brown (Nilaparvata lugens (Stål)) of rice: weed host, Leersia

hexandra, 77

Potato virus Y: improved control by mineral oil and the pyrethroid cypermethrin applied electrostatically, 469

Practical scheme for estimating swath width using ULV sprays. BACHE,

D.H., 451

Prediction of vulnerability of pear cultivars to bullfinch damage, SUMMERS, D.D.B. AND HUSON, L.W., 335

Pyrethroid cypermethrin plus mineral oil: electrostatic application for improved control of potato virus Y, 469

Pythium root rot: effect on yield of white bean, Phaseolus vulgaris L., 423

Quality and yield of strawberries: effect of nymphal feeding on Philaenus spumarius (L.), (meadow spittlebug), 167

Ragged stunt and tungro viruses: resistance of rice variety Utri Rajapan, 491

Relative resistance of derived cultivars of sovbeans to the cyst nematode, Heterodera glycines Ichinohe. ANAND, S.C. AND SHUMWAY, C.R., 363

Resistance of cereals to aphids, and ear structure, 67

Resistance, fungicide: industry's response, 3

Resistance to, and fungitoxicity of, metalaxyl, 177

Resistance to green leafhopper, Nephotettix virescens (Distant), in some cvs of rice, Oryza sativa L: genetic analysis, 41

Resistance to insect pests induced in rice plants by chelated metal complexes, 187

Resistance levels of cotton cvs to isolates of Xanthomonas malvacearum in Nigeria: assessment, 103

Resistance of Oryza spp. to thrips, Stenchaetothrips biformis (Bagnall) (Thysanoptera: Thripidae). NUGALIYADDE, L. AND HEINRICHS, E.A., 305

Resistance, relative, of derived cultivars of soybeans to the cyst nematode, Heterodera glycines Ichinohe, 363

Resistance of the rice variety Utri Rajapan to ragged stunt and tungro viruses. PANDA, N., HEINRICHS, E.A. AND HIBINO, H., 491

Resseliella sp. (Diptera: Cecidomyiidae) attacking field beans (Vicia faba L.). BARDNER, R., FLETCHER, K.E. AND

HAMON, N., 53

Rice, biological weed control in, with strain of Colletotrichum gloeosporioides (Penz.) Sacc. used as a mycoherbicide, 409

Rice brown planthopper, Nilaparvata lugens (Stål): weed host, Leersia hexandra, 77

Rice insecticide: toxicity and hazard to fish, 151

Rice (Oryza sativa L.) cvs: genetic analysis for resistance to green leafhopper, Nephotettix virescens (Distant), 41

Rice (Oryza spp.) resistance to thrips, Stenchaetothrips biformis (Bagnall),

Rice plants: induction of resistance to insect pests by chelated metal complexes, 187

Rice variety Utri Rajapan: resistance to ragged stunt and tungro viruses, 491

Root rot, Pythium: effect on yield of white bean, Phaseolus vulgaris L., 423

Rust (Uromyces viciae-fabae): effect on yield of spring-sown field beans (Vicia faba) in the UK, 193

Seed treatments or early foliar sprays: effects of systemic fungicides on speckled leaf blotch of wheat, Mycosphaerella graminicola, 59

Sitobion avenae (F.), grain aphid, effect on winter wheat in England: economics of control practice and forecasting systems, 209

Soil-applied granular pesticides: effects on establishment and yield of sugar beet in commercial fields, 439

Sorghum: phytotoxicity of isazophos, lindane and heptachlor applied as infurrow and broadcast-incorporated treatments, 261

Soybean cvs, derived: relative resistance to cyst nematode (Heterodera glycines

Ichinohe), 363

Speckled leaf blotch of wheat, Mycosphaerella graminicola: effect of systemic fungicides, as seed treatments or early foliar sprays, 59

Sphaerotheca fuliginea: decreased sensitivity to fenarimol and other ergosterol-biosynthesis inhibitors,

137

Spittlebug, meadow (*Philaenus spumarius* (L.)): effects of nymphal feeding on strawberry yield and quality, 167

Spray patterns on tractor sprayers: field assessment, 507

Sprays, early foliar, or seed treatments: effects of systemic fungicides on speckled leaf blotch of wheat, Mycosphaerella graminicola, 59

Sprays, trichlorfon, and alfalfa (Medicago sativa L.) cvs: effect on pea aphid, Acyrthosiphon pisum (Harris), 199

Spray techniques for mass release of eggs of *Micromus tasmaniae* Walker (Neuroptera: Hemerobiidae). HUSSEIN, M.Y., 369

Stenchaetothrips biformis (Bagnall) (Thysanoptera: Thripidae): resistance of Oryza spp., 305

Strawberry yield and quality: effects of nymphal feeding by meadow spittlebug, *Philaenus spumarius* (L.), 167

Studies of mechanisms of metalaxyl fungitoxicity and resistance to metalaxyl. FISHER, D.J. AND HAYES, ANN L., 177

Sugar beet in commercial fields: effects of soil-applied granular pesticides on yield and establishment, 439

Sugar-cane wireworm, Agrypnus variabilis (Candèze) in maize: insecticidal control and economic damage, 253

Survey of weed beet in sugar beet in England 1978-81. MAUGHAN, G.L., 315 Swath width estimation using ULV sprays: a practical scheme, 451

Syrian woodpeckers deterred from drilling holes in plastic irrigation pipes, 35

System for the rapid collection, analysis and dissemination of aphidmonitoring data from suction traps, WOIWOD, I.P., TATCHELL, G.M. AND BARRETT, A.M., 273

Systemic fungicides, as seed treatments or early foliar sprays: effect on speckled leaf blotch of wheat, Mycosphaerella graminicola, 59

Temperature, night, and glasshouse ventilation: effect on *Botrytis* cinerea in a late-planted tomato crop, 243

Tetranychus urticae (Koch) eggs, larvae and protonymphs: biological efficiency of small dicofol droplets, 327

Thrips, Stenchaetothrips biformis (Bagnall) (Thysanoptera: Thripidae): resistance of Oryza spp., 305

Timing and extent of damage caused by insect pests of green gram (Vigna radiata L.) in Bangladesh. ISLAM, W., AHMED, K.N. AND JOARDER, O.I., 343

Tomato crop, late-planted: effect of night temperature and glasshouse ventilation on *Botrytis cineres*, 243

Toxicity and hazard to fish of a rice insecticide, 151

Tractor sprayers: field assessment of spray patterns, 507

Traps, suction, aphid-monitoring data from: system for rapid collection, analysis and dissemination, 273

Treatments, in-furrow and broadcastincorporated, of isazophos, lindane and heptachlor: phytotoxicity, 261

Trichlorfon sprays and alfalfa (Medicago sativa L.) cvs: effect on pea aphid, Acyrthosiphon pisum (Harris), 199

Tulip breaking virus: control of field spread in *Lilium* cv. Enchantment by mineral oil, 111

Tungro and ragged stunt viruses: resistance of rice variety Utri Rajapan, 491

- ULV sprays for estimation of swath widths: a practical scheme, 451
- Uromyces viciae-fabae (rust): effect on yield of field beans (Vicia faba) in UK, 193
- Ventilation, glasshouse, and night temperature: effect on *Botrytis cinerea* in late-planted tomato crop, 243
- Vicia faba L. (field beans) attacked by Resseliella sp., 53
- Vicia faba (field beans) in UK: effect of rust (Uromyces viciae-fabae) on yield, 193
- Vigna radiata (L.) (green gram): timing and extent of damage caused by insect pests in Bangladesh, 343
- Virus, cocoa swollen shoot, in Ghana: coppicing experiments on spread and control, 289
- Viruses, tungro and ragged stunt: resistance of rice variety Utri Rajapan, 491
- Virus, tulip breaking: control of field spread in *Lilium* cv. Enchantment, by mineral oil, 111
- Weed beet in sugar beet 1978-81, 315
 Weed control, biological, in rice with a
 strain of Colletotrichum gloeosporioides
 (Penz.) Sacc. used as a
 mycoherbicide, 409
- Weed host (Leersia hexandra) of rice brown planthopper, Nilaparvata lugens (Stål.), 77
- Wheat, winter, in England, and effect of

- grain aphid, *Sitobion avenae* (F.): economics of control practice and forecasting systems, 209
- Wheat, speckled leaf blotch, Mycosphaerella graminicola: effect of systemic fungicides, as seed treatments or early foliar sprays, 59
- Winter barley in England: control of Bromus species using EPTC, 431
- Winter wheat in England, and effect of grain aphid, Sitobion avenae (F.): economics of control practice and forecasting systems, 209
- Wireworm, sugar-cane, Agrypnus variabilis (Candèze), in maize: insecticidal control and economic damage, 253
- Woodpeckers, Syrian, deterred from drilling holes in irrigation pipes, 35
- Xanthomonas malvacearum (E.F. Smith)

 Dowson isolates: resistance of cotton
 cvs in Nigeria, 103
- Yield and establishment of sugar beet in commercial fields: effects of soilapplied granular pesticides, 439
- Yield of field beans (Vicia faba) in UK: effect of rust (Uromyces viciae-fabae), 193
- Yield and quality of strawberries: effects of nymphal feeding by meadow spittlebug, *Philaenus spumarius* (L.), 167
- Yield of white bean, *Phaseolus vulgaris* L.: effect of Pythium root rot, 423

Author index

- AHMED, K.S., see ISLAM, W. et al.
 ALBANS, K.R., BAKER, R., JONES, O.T.,
 JUTSUM, A.R. AND TURNBULL,
 M.D.: Inhibition of response of
 Heliothis virescens to its natural
 pheromone by antipheromones,
- ALTIERI, M.A.: Pest-management technologies for peasants: a farming systems approach, 87
- Anand, S.C. and Shumway, C.R.: Relative resistance of derived cultivars of soybeans to the cyst nematode *Heterodera glycines*

- Ichinohe, 363
- Asjes, C.J.: Control of field spread of tulip breaking virus in *Lilium* cv. Enchantment by different brands of mineral oil, 111
- AVESI, G.M. AND KHUSH, G.S.: Genetic analysis for resistance to the green leafhopper, *Nephotettix virescens* (Distant) in some cultivars of rice, *Oryza sativa* L., 41
- BACHE, D.M.: A practical scheme for estimating swath width using ULV sprays, 451

BAINBRIDGE, A., see LAPWOOD, D.H. et al.

BAKER, R., see ALBANS, K.R. et al.
BARDNER, R., FLETCHER, K.E. AND
HAMON, N.: Resseliella sp. (Diptera:
Cecidomyiidae) attacking field beans
(Vicia faba L.), 53

BARNEA, A. AND YOM-Tov, Y.: A method to deter Syrian woodpeckers from drilling holes in plastic irrigation

pipes, 35

BARRETT, A.M., see WOIWOD, I.P. et al. BROWN, J.S.: The effect of systemic fungicides, applied as seed treatments or early foliar sprays, on speckled leaf blotch of wheat, Mycosphaerella graminicola (Fuckel) Schroeter, 59

CAYLEY, G.R., see GIBSON, R.W. AND CAYLEY, G.R.

CHAHAL, S.S. AND VIRK, D.S.: Multilocation evaluation and selection of stable genotypes for reaction to downy mildew in pearl millet, 95

CHEW, P.S. AND HALL, R.: Effect of Pythium root rot on yield of white bean, *Phaseolus vulgaris* L., 423

Choi, S.Y., see Stephenson, R.R. et al. Collins, M.A., see Huggenberger, F. et al.

COMAI, LUCA AND STALKER, DAVID M.: Impact of genetic engineering on crop protection, 399

COMBELLACK, J.H.: Herbicide applications: a review of ground application techniques, 9

COOKE, D.A., see MAUGHAM, G.L. et al. CRUTE, I.R.: The integrated use of genetic and chemical methods for control of lettuce downy mildew (Bremia lactucae Regel), 223

CUPERUS, G.W. AND RADCLIFFE, E.B.: Effect of trichlorfon sprays and alfalfa (Medicago sativa L.) cultivars on pea aphid, Acyrthosiphon pisum (Harris), 199

Dale, D., see Premila, K.S. and Dale, D.

DELP, C.J.: Industry's response to fungicide resistance, 3 DEWAR, A.M., TATCHELL, G.M. AND Turl, L.A.D.: A comparison of cereal-aphid migrations over Britain in the summers of 1979 and 1982, 379

Dixon, A.F.G., see Watson, S.J. and Dixon, A.F.G.

ERINLE, I.D., see POSWAL, M.A.T. AND ERINLE, I.D.

FISHER, D.J. AND HAYES, ANN L.: Studies of mechanisms of metalaxyl fungitoxicity and resistance to metalaxyl, 177

FLETCHER, K.E., see BARDNER, R. et al. FORRESTER, N.W.: Phytotoxicity of isazophos, lindane and heptachlor to sorghum applied as in-furrow and broadcast-incorporated treatments,

261

FORRESTER, N.W., GUNNING, R.V. AND SINGH, G.: Insecticidal control and economic damage of sugar-cane wireworm, *Agrypnus variabilis* (Candèze) in maize, 253

GIBSON, R.W. AND CAYLEY, G.R.: Improved control of potato virus Y by mineral oil plus the pyrethroid cypermethrin applied electrostatically, 469

GNANASAKTHY, A., see MAUGHAN, G.L. et al.

Gunning, R.V., see Forrester, N.W. et al.

HALL, R., see Chew, P.S. and Hall, R. Hamon, N., see Bardner, R. et al. Hayes, Ann L., see Fisher, D.J. and Hayes, Ann L.

HEINRICHS, E.A. AND MEDRANO, F.G.: Leersia hexandra, a weed host of the rice brown planthopper, Nilaparvata lugens (Stål), 77

HEINRICHS, E.A., see also NUGALIYADDE, L. AND HEINRICHS, E.A. and PANDA,

N. et al.

HIBINO, H. see PANDA, N. et al.
HUGGENBERGER, F., COLLINS, M.A. AND
SKYLAKAKIS, G.: Decreased
sensitivity of Sphaerotheca fuliginea to
fenarimol and other ergosterolbiosynthesis inhibitors, 137

Huson, L.W., see Summers, D.D.B. and Huson, L.W.

HUSSEIN, M.Y.: A spray technique for mass release of eggs of *Micromus* tasmaniae Walker (Neuroptera: Hemerobiidae), 369

ISLAM, W., AHMED, K.N. AND JOARDER, O.I.: Timing and extent of damage caused by insect pests of green gram (Vigna radiata L.) in Bangladesh, 343

JOARDER, O.I., see ISLAM, W. et al. JONES, O.T., see ALBANS, K.R. et al. JUTSUM, A.R., see ALBANS, K.R. et al.

KHUSH, G.S., see AVESI, G.M. AND KHUSH, G.S.

LAPWOOD, D.H., BAINBRIDGE, A., McEwen, J. And Yeoman, D.P.: An effect of rust (*Uromyces viciae-fabae*) on the yield of spring-sown field beans (*Vicia faba*) in the UK, 193

LEGG, J.T., LOVI, N.K., OLLENNU, L.A.A., OWUSU, G.K. AND THRESH, J.M.: Coppicing experiments on the spread and control of cocoa swollen shoot virus in Ghana, 289 LOVI, N.K., see LEGG, J.T. et al.

McEwen, J., see Lapwood, D.H. et al. Maughan, G.L.: Survey of weed beet in sugar beet in England 1978–81, 315

MAUGHAN, G.L., COOKE, D.A. AND GNANASAKTHY, A.: The effects of soil-applied granular pesticides on the establishment and yield of sugar beet in commercial fields, 439

MEDRANO, F.G., see HEINRICHS, E.A. AND MEDRANO, F.G.

MORGAN, WALTER M.: The effect of night temperature and glasshouse ventilation on the incidence of *Botrytis cinerea* in a late-planted tomato crop, 243; Integration of environmental and fungicidal control of *Bremia lactucae* in a glasshouse lettuce crop, 349

MUNTHALI, D.C.: Biological efficiency of small dicofol droplets against *Tetranychus urticae* (Koch) eggs, larvae and protonymphs, 327 NUGALIYADDE, L. AND HEINRICHS, E.A.: Resistance of Oryza spp. to thrips, Stenchaetothrips biformis (Bagnall) (Thysanoptera: Thripidae), 305

Ollennu, L.A.A., see Legg, J.T. et al. Olmos-Jerez, A., see Stephenson, R.R. et al.

Owusu, G.K., see LEGG, J.T. et al.

PANDA, N., HEINRICHS, E.A. AND HIBINO, H.: Resistance of the rice variety Utri Rajapan to ragged stunt and tungro viruses, 491

POLLARD, F., RICHARDSON, W.G. AND WEST, T.M.: Control of *Bromus* species in winter barley in England using EPTC, 431

Poswal, M.A.T. AND ERINLE, I.D.:
Assessment of levels of resistance of cotton cultivars to isolates of Xanthomonas malvacearum (E.F. Smith) Dowson in Nigeria, 103

Premila, K.S. and Dale, D.: Induction of resistance in rice plants to insect pests by the application of chelated metal complexes, 187

RADCLIFFE, E.B., see CUPERUS, G.W. AND RADCLIFFE, E.B.

SHUMWAY, C.R., see ANAND, S.C. AND SHUMWAY, C.R.

SINGH, G., see FORRESTER, N.W. et al.
SKYLAKAKIS, G., see COLLINS, M.A. et al.
SMITH, R.J., JR, see TEMPLETON, G.E. et
al.

STALKER, DAVID M., see COMAI, LUCA AND STALKER, DAVID M.

STEPHENSON, R.R., CHOI, S.Y. AND OLMOS-JEREZ, A.: Determining the toxicity and hazard to fish of a rice insecticide, 151

SUMMERS, D.D.B. AND HUSON, L.W.: Prediction of vulnerability of pear cultivars to bullfinch damage, 335

SYMMONS, P.M.: Control of the Australian plague locust, *Chortoicetes* terminifera (Walker), 479

TATCHELL, G.M., see DEWAR, A.M. et al., and WOIWOD, I.P. et al.

- TEBEEST, D.O., see TEMPLETON, G.E. et
- TEMPLETON, G.E., TEBEEST, D.O. AND SMITH, R.J., JR.: Biological weed control in rice with a strain of Colletotrichum gloeosporioides (Penz.) Sacc. used as a mycoherbicide, 409
- THRESH, J.M., see LEGG, J.T. et al.
 TRESHN, L.: Field assessment of spray
 patterns on tractor sprayers, 507
- TURL, L.A.D., see DEWAR, A.M. et al. TURNBULL, M.D., see ALBANS, K.R. et al.
- VICKERMAN, G.P., see WATT, A.D. et al. VIRK, D.S., see CHAHAL, S.S. AND VIRK, D.S.
- WATSON, S.J. AND DIXON, A.F.G.: Ear structure and the resistance of cereals to aphids, 67
- WATT, A.D., VICKERMAN, G.P. AND WRATTEN, S.D.: The effect of the

- grain aphid, Sitobion avenae (F.) on winter wheat in England: an analysis of the economics of control practice and forecasting systems, 209
- WILSON, M. CURTIS, see ZAJAC, MARK A.
 AND WILSON, M. CURTIS
- WOIWOD, I.P., TATCHELL, G.M. AND BARRETT, A.M.: A system for the rapid collection, analysis and dissemination of aphid-monitoring data from suction traps, 273
- WRATTEN, S.D., see WATT, A.D. et al.
- YEOMAN, D.P., see LAPWOOD, D.H. et al. YOM-TOV, Y., see BARNEA, A. AND YOM-TOV, Y.
- ZAJAC, MARK A. AND WILSON, M. CURTIS: The effects of nymphal feeding by the meadow spittlebug, *Philaenus spumarius* (L.), on strawberry yield and quality, 167